

Sub C2 1. (Twice Amended) An apparatus for converting an input voice signal into an output voice signal according to a reference voice signal, the apparatus comprising:

extracting means for extracting a plurality of sinusoidal wave components from the input voice signal, the sinusoidal wave components being spectral wave components of the input voice and in the form of at least frequency value coordinates;

B1 memory means for memorizing reference pitch information representative of a pitch of the reference voice signal;

modulating means for modulating the frequency value coordinates of the sinusoidal wave components of the input voice signal according to the reference pitch information retrieved from the memory means; and

mixing means for mixing the plurality of the sinusoidal wave components having the modulated frequency value coordinates to synthesize the output voice signal having a pitch different from that of the input voice signal and influenced by that of the reference voice signal.

Sub C2 9. (Twice Amended) An apparatus for converting an input voice signal into an output voice signal according to a reference voice signal, the apparatus comprising:

extracting means for extracting a plurality of sinusoidal wave components from the input voice signal, the sinusoidal wave components being spectral wave components of the input voice and in the form of at least amplitude value coordinates;

B2 memory means for memorizing reference amplitude information representative of amplitudes of sinusoidal wave components contained in the reference voice signal;

modulating means for modulating the amplitude value coordinates of the sinusoidal wave components of the input voice signal extracted from the input voice signal according to the reference amplitude information retrieved from the memory means; and

mixing means for mixing the plurality of the sinusoidal wave components having the modulated amplitude value coordinates to synthesize the output voice signal having a timbre different from that of the input voice signal and influenced by that of the reference voice signal.

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17. (Twice Amended) An apparatus for synthesizing an output voice signal from an input voice signal and a reference voice signal, the apparatus comprising:

an analyzer device that analyzes a plurality of sinusoidal wave components contained in the input voice signal to derive a parameter set of an original frequency and an original amplitude, the sinusoidal wave components being spectral wave components of the input voice, the parameter set representing a corresponding sinusoidal wave component;

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a source device that provides reference information characteristic of the reference voice signal;

a modulator device that modulates the parameter set of the sinusoidal wave components according to the reference information; and

a regenerator device that operates according to each of the parameter sets as modulated to regenerate each of the sinusoidal wave components so that at least one of the frequency and the amplitude of each sinusoidal wave component as regenerated varies from the original one, and that mixes the regenerated sinusoidal wave components together to synthesize the output voice signal.

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25. (Twice Amended) A method of converting an input voice signal into an output voice signal according to a reference voice signal, the method comprising the steps of:

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extracting a plurality of sinusoidal wave components from the input voice signal, the sinusoidal wave components being spectral wave components of the input voice and in the form of at least frequency value coordinates

memorizing reference pitch information representative of a pitch of the reference voice signal;

modulating the frequency value coordinates of the sinusoidal wave components of the input voice signal according to the reference pitch information; and

mixing the plurality of the sinusoidal wave components having the modulated frequency value coordinates to synthesize the output voice signal having a pitch different from that of the input voice signal and influenced by that of the reference voice signal.

26. (Twice Amended) A method of converting an input voice signal into an output voice signal according to a reference voice signal, the method comprising the steps of:

extracting a plurality of sinusoidal wave components from the input voice signal, the sinusoidal wave components being spectral wave components of the input voice and in the form of at least amplitude value coordinates;

memorizing reference amplitude information representative of amplitudes of sinusoidal wave components contained in the reference voice signal;

modulating the amplitude value coordinates of the sinusoidal wave components of the input voice signal extracted from the input voice signal according to the reference amplitude information retrieved from the memory means; and

mixing the plurality of the sinusoidal wave components having the modulated amplitude value coordinates to synthesize the output voice signal having a timbre different from that of the input voice signal and influenced by that of the reference voice signal.